

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/775,840 Confirmation No. 1645  
Applicants : Carey John Naquin,  
John R. Hardin, Jr.,  
Chris Maranuk,  
Jim Estep,  
David Rios-Aleman, and  
Haoshi Song  
Filed : February 10, 2004  
TC/A.U. : 3672  
Examiner : Thomas S. Bomar  
  
Title : Apparatus for Changing Wellbore Fluid Temperature  
Docket No. : 1391-46000  
Client Ref. No. : 2003-IP-011711 USA  
Customer No. : 23505  
  
Date : January 19, 2007

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**REPLY TO OFFICE ACTION DATED OCTOBER 23, 2006**

Sir:

Please amend the above-identified application as follows.

**Amendments to the Claims** are reflected in the listing of the claims that begins on page 2 of this paper.

**Remarks** begin on page 12 of this paper.